VEASEY (C.A.)

## TROPACOCAINE,

The New Local Anæsthetic, and its Use in Diseases of the Eye.

RV

### C. A. VEASEY, M. D.,

Clinical Assistant to the Ophthalmological Department of the Jefferson Medical College Hospital; Consulting Ophthalmic Surgeon to the Philadelphia Lying-in Charity and Nurse-Training School, etc.

REPRINTED FROM

Che New York Medical Journal

for November 25, 1893.





# Reprinted from the New York Medical Journal for November 25, 1893.



## TROPACOCAINE,

THE NEW LOCAL ANÆSTHETIC, AND ITS USE IN DISEASES OF THE EYE.

By C. A. VEASEY, M. D.,

CLINICAL ASSISTANT TO THE OPHTHALMOLOGICAL DEPARTMENT OF THE JEFFERSON MEDICAL COLLEGE HOSPITAL; CONSULTING OPHTHALM C SURGEON TO THE PHILADELPHIA LYING-IN CHARITY AND NURSE-TRAINING SCHOOL, ETC.

TROPACOCAINE, a comparatively new alkaloid recently isolated by Giesel \* from a Java coca plant, which has been investigated physiologically by Chadbourne,† is a local anæsthetic somewhat resembling cocaine in its action and yet differing from it in many points.

Chemically it is benzo-pseudo-tropeine, and, according to Chadbourne, is not to be classed with the "true anæsthetics," which cause ischæmia, nor with the "anæsthetica dolorosa" of Liebriech, which cause irritation and hyperæmia, but is to be considered the physiological connecting link between the two classes.

It has been used by Schweigger and Silex, of Berlin, and the former claims to have performed painless iridectomy in less than two minutes after the instillation of one or two drops of a three-per-cent. solution, while the latter

> \* Pharmaceut. Zeitung, xxxvi, July 4, 1891. † Brit. Med. Jour., 1892, vii, p. 402.

has done a tenotomy without any pain in less than a halfminute after an instillation was made.

Desiring to test for myself its action upon the human eye, I have now used it for several weeks almost to the exclusion of cocaine, and in those cases in which I had previously been employing a four-per-cent. solution of cocaine hydrochloride, with the following results:

When first introduced into the eye there was not the marked ischæmia which followed the introduction of cocaine. There was comparatively no smarting—if dissolved in the normal saline solution, and the preparations used by me were three-per-cent. solutions of the hydrochloride of the base made up with fo-per-cent. solutions of chloride of sodium, as recommended by Schweigger—and in a short time the anæsthesia was complete. As nearly as I could estimate, the average time from the instillation until complete anæsthesia of the cornea was produced was about two minutes, though the experiments of Chadbourne make the time a little shorter, and the anæsthetic effect lasted about eight minutes, but could be prolonged by repeating the instillations at various intervals.

The pupil was rarely affected, but in a few cases was slightly dilated, the dilatation being maintained for a short time only. In those cases in which there was response from the pupil the "range" of accommodation was slightly changed, the near point being carried farther from the eye. The vision was made slightly hazy, but there was no paralysis of accommodation; and in the cases in which there was no pupillary response there was no change in the accommodation or acuity of vision.

The palpebral fissure was somewhat enlarged, as is the case with cocaine, but at no time did I observe any ptosis.

I have used it in some minor operations, but do not like it any better than the ordinary cocaine solutions; and

as the price of the preparation is so high—being about forty cents a grain wholesale—it is hardly probable that it will come into general use.

For removing foreign bodies from the cornea, or for making strong astringent or caustic applications to the cornea or conjunctiva, it is preferable to cocaine on account of its feeble and infrequent action upon the accommodation, thereby preventing the annoyance of a hazy vision for a time; and in cases of keratitis, when an anæsthetic must be employed, it is to be preferred, as it does not diminish to so great an extent the blood supply.

For other purposes I have not found it superior to the cocaine hydrochloride in general use.

125 NORTH SEVENTEENTH STREET.



## The New York Medical Journal.

### A WEEKLY REVIEW OF MEDICINE.

EDITED BY

FRANK P. FOSTER, M.D.

THE PHYSICIAN who would keep abreast with the advances in medical science must read a live weekly medical journal, in which scientific facts are presented in a clear manner; one for which the articles are written by men of learning, and by those who are good and accurate observers; a journal that is stripped of every feature irrelevant to medical science, and gives evidence of being carefully and conscientiously edited; one that bears upon every page the stamp of desire to elevate the standard of the profession of medicine. Such a journal fulfills its mission—that of educator—to the highest degree, for not only does it inform its readers of all that is new in theory and practice, but, by means of its correct editing, instructs them in the very important yet much-neglected art of expressing their thoughts and ideas in a clear and correct manner. Too much stress can not be laid upon this feature, so utterly ignored by the "average" medical periodical.

Without making invidious comparisons, it can be truthfully stated that no medical journal in this country occupies the place, in these particulars, that is held by THE NEW YORK MEDICAL JOURNAL. No other journal is edited with the care that is bestowed on this; none contains articles of such high scientific value, coming as they do from the pens of the brightest and most learned medical men of America. A glance at the list of contributors to any volume, or an examination of any issue of the JOURNAL, will attest the truth of these statements. It is a journal for the masses of the profession, for the country as well as for the city practitioner; it covers the entire range of medicine and surgery. A very important feature of the JOURNAL is the number and character of its illustrations, which are unequaled by those of any other journal in the world. They appear in frequent issues, whenever called for by the article which they accompany, and no expense is spared to

make them of superior excellence.

Subscription price, \$5.00 per annum. Volumes begin in January and July.

PUBLISHED BY

D. APPLETON & CO., 1, 3, & 5 BOND STREET,

NEW YORK.

